

Midspan Patch Panel With Circuit Separation For  
Data Terminal Equipment, Power Insertion And Data Collection

ABSTRACT OF THE DISCLOSURE

**[0079]** A compensating advanced feature patch panel that can include removable modular or fixed electronic components located directly on the patch panel which are separately or in combination capable of providing advanced features such as device detection and power insertion. The patch panel provides communications between an insulation displacement connector (IDC) at a PD/User end, and any standard interface type using unshielded twisted pair cables, such as an RJ45 connector at a switch end at performance levels of at least category 3, 5, 5e, 6 and/or higher (e.g. 6e or 7) and equivalent performance levels by compensating for the active electronics used in providing advanced features. Compensation is achieved in part through the separation and isolation of active and communication circuit elements.